

CURRICULUM VITAE OF A.K.M. ABDUL AHAD BISWAS

Name: AKM Abdul Ahad Biswas
Date of Birth: 31 December, 1970 AD

Contact Details:

Professor, Department of Disaster Risk Management; Patuakhali Science and Technology University, Dumki, Patuakhali-8602, Bangladesh. Mobile: +8801718407784; Email: aahadstu@pstu.ac.bd; aahadstu@yahoo.com; akmaab@gmail.com

Key Academic, Research, and Development Interests:

1. Agricultural DRR and Climate Adaptation: Risk analysis and communication, sustainable agricultural practices, livestock-environment interactions, GHG emissions, and mitigation strategies.
2. Genetics and Livestock Production: Gene karyotyping and mapping, livestock production technologies, and safe processing methods.
3. Education and Project Development in DRR/CCA: Curriculum design and quality assurance for DRR/CCA training and academic programs; Communication for Development (C4D); national and international R&D project development and implementation.

Major Personal Traits:

Highly adaptable and quick to learn, with a strong work ethic and the ability to perform effectively both independently and within diverse, multidisciplinary teams. Demonstrates strong organizational and motivational skills, with a commitment to integrity, punctuality, and excellence under pressure. Embraces challenges and thrives in dynamic academic administrative, research and development environments.

Educational Background:

1. **Name of the Institute:** North Bengal Information and Communication Technology Laboratory, HSTU, Dinajpur and Nurul Islam Jubo Unnayan Society, BCE Computer City, BCE More, Mohadebpur, Rongpur
Name of the degree obtained: IBM SPSS statics and MS excel
Year of passing: October to December 2021; **Division/Grade/Class Obtained:** A+
2. **Name of the University:** Ohio State University, USA; UNICEF-Bangladesh and University Grants Commission of Bangladesh.
Name of the degree obtained: E-learning Course on "Communication for Development (C4D)"
Year of passing: March to May, 2018; **Division/Grade/Class Obtained:** Passed with 'Distinction'
3. **Name of the Institute/University:** Faculty of Geo-Information Science and Earth Observation (ITC), University of Twente, the Netherlands.
Name of the degree obtained: Short Course in "Natural Hazards Modeling and Risk Assessment" - C12-AES-SC-06
Year of passing: From 05-Mar-2012 until 04-May-2012
Division/Grade/Class Obtained: Course Attended
4. **Name of the Institute/University:** All-Russian Research Institute of Genetics and Breeding for Farm Animals, St. Petersburg, Russia
Name of the degree obtained: Doctor of Philosophy in Biology (Genetics); **Year of passing:** 2004
Division/Grade/Class Obtained: Course Work 'Good/A' Grade and PhD Degree Awarded
5. **Name of the University:** Bangladesh Agricultural University, Mymensingh, Bangladesh
Name of the degree obtained: Master of Science in Dairy Science;
Year of passing: 1997; **Division/Grade/Class Obtained:** 'A' -Grade
6. **Name of the University:** Bangladesh Agricultural University, Mymensingh, Bangladesh
Name of the degree obtained: Bachelor of Science in Animal Husbandry (Honors)
Year of passing: 1991; **Division/Grade/Class Obtained:** Higher Second Class
7. **Name of the Board:** Dhaka, Bangladesh
Name of the degree obtained: Higher Secondary Certificate, Science Group
Year of passing: 1987; **Division/Grade/Class Obtained:** First Division
8. **Name of the Board:** Dhaka, Bangladesh
Name of the degree obtained: Secondary School Certificate, Science Group
Year of passing: 1985; **Division/Grade/Class Obtained:** First Division

Title of the Thesis:

1. **E Learning:** C4D courses Development for Environmental Science and Disaster Management student.
2. **Short Course:** Cyclone Flood in Banskhali, Chittagong, Bangladesh: Updating Data and Hazard Analysis.
3. **Ph.D.:** "Comparative analysis of genome in Cattle and Sheep."
4. **Masters:** "Effect of Banana (*Musa Sapientum*) leaf on the keeping quality of raw milk."

Lists of Selected Research References and Publications

A. Published Scientific Journal Article

1. Faisal, Md.; **Biswas, A. K. M Abdul Ahad**; Saha, Milton Kumar. Climate Smart Disaster Risk Reduction: Indigenous Knowledge Practiced for Housing Technology in Coastal Zone of Bangladesh. 2025. **International Journal of Disaster Management**, [S.I.], v. 7, n. 1, p. 107-128, aug. 2024. ISSN 2527-4341. Available at: <<https://jurnal.usk.ac.id/IJDM/article/view/36786>>. Date accessed: 22 may 2025. doi:<https://doi.org/10.24815/ijdm.v7i1.36786>.
2. Milton Kumar Saha, **AKM Abdul Ahad Biswas**, Md. Faisal, 2024. **Livelihood vulnerability of coastal communities in context of the climate change: A index-based assessment**. World Development Sustainability, 4 (2024) 100152. <https://doi.org/10.1016/j.wds.2024.100152>
3. Md. Faisal, Milton Kumar Saha, **A. K. M Abdul Ahad Biswas**, 2023. **Risk Analysis of Climate Induced Disaster in Coastal Bangladesh: Study on Dashmina Upazila in Patuakhali District**. International Journal of Disaster Management. 6:3, pp 355-368. <https://jurnal.usk.ac.id/IJDM/article/view/36483>
4. Milton Kumar Saha, Shamim Mia, **AKM Abdul Ahad Biswas**, Md Abdus Sattar, Md. Abdul Kader, Zhixiang Jiang. 2022. **Potential methane emission reduction strategies from rice cultivation systems in Bangladesh: A critical synthesis with global meta-data**. Journal of Environmental Management, Volume 310:114755, ISSN 0301-4797, <https://doi.org/10.1016/j.jenvman.2022.114755>
5. Sattar, Md. Abdus, Shamim Mia, Afroza Akter Shanta, **AKM Abdul Ahad Biswas**, and Fulco Ludwig. 2021. "Remote Impacts from El Niño and La Niña on Climate Variables and Major Crops Production in Coastal Bangladesh", *Atmosphere*, 12:11: 1449. <https://doi.org/10.3390/atmos12111449>

6. Md Faisal, Milton Kumar Saha, Md Abdus Sattar, **A K M Abdul Ahad Biswas** and Md Afjal Hossain. 2021. **Evaluation of climate induced hazards risk for coastal Bangladesh: a participatory approach-based assessment**, Geomatics, Natural Hazards and Risk, 12:1, 2477-2499, DOI: 10.1080/19475705.2021.1967203
7. Milton Kumar Saha, Shamim Mia, **AKM Abdul Ahad Biswas**, Md. Abdus Sattar, and Feike A. Dijkstra. 2021. **Methane emission from different rice cultivation systems in Bangladesh: A model based approach**. Research Square. <https://doi.org/10.21203/rs.3.rs-552062/v1>
8. Md. Abdus Sattar, **AKM Abdul Ahad Biswas**, Md Tariqul Islam, Md Afjal Hossain, Mawya Siddeqa, Md Abdur Rahim, Md Nurul Amin, Md Touhiduzzaman, Md Abdur Rahman and Sanjida Aktar. 2020. **Disaster vulnerability and mitigation of humanitarian issues in coastal Bangladesh: Local evidence and knowledge gaps**. Progress in Disaster Science, 8, 100138. <https://doi.org/10.1016/j.pdisas.2020.100138>
9. Milton Kumar Saha, **AKM Abdul Ahad Biswas**, Md. Faisal, Javed Meandad, Ryhan Ahmed, Joy Prokash, Faisal Mahmud Sakib. December, 2019, **Factors Affecting to Adoption of Climate-smart Agriculture Practices by Coastal Farmers' in Bangladesh**. American Journal of Environment and Sustainable Development. 4 (4), pp. 113-121. <http://www.aiscience.org/journal/ajesd>
10. Debnath, P., Hasan, M.M., **Biswas, A.K.M.A.A.** and Biswas, A., June, 2019, **Adoption of disaster risk reduction strategy in agriculture sector at Southkhali Union of Sharankhola Upazila, Bangladesh**. Archives of Agriculture and Environmental Science. 4(2), pp141-150. <https://doi.org/10.26832/24566632.2019.040203>
11. Siddeqa M, Islam MT, **Biswas AKMAA**, October, 2018; **Occupational risk of maid servant at Bhola Sadar sub-district, Bangladesh**. Discovery, 54(274), pp397-404. http://www.discoveryjournals.org/discovery/current_issue/v54/n274/A4.pdf?#zoom=125
12. **Biswas A K M A A**, Saha M K, Hasan I, Faisal M, Prokash J., October, 2018, **Occupational Musculoskeletal and Respiratory Illness among Brick Kiln Industry Workers in Bangladesh**. Caspian Journal of Health Research. 3 (3), pp80-85. URL: <http://cjhr.gums.ac.ir/article-1-100-en.html>. DOI: 10.29252/cjhr.3.3.80
13. Siddeqa M, Islam MT, Shahin M, **Biswas AKMAA**, June 1, 2018, **Cyclone vulnerability and coping strategies of coastal community: village level assessment in Bangladesh**. Discovery. 54 (270), pp213-220. http://www.discoveryjournals.org/discovery/current_issue/v54/n270/A1.pdf?#zoom=125
14. Md. Tariqul Islam, Mawya Siddeqa, and **AKM Abdul Ahad Biswas**. May 07, 2018. **Smallholder Farmer's Knowledge, Perception and Attitude on Occupational Hazard and Safety at Dumki Sub-District of Bangladesh**. Journal of Sociology and Anthropology. 2 (1), pp21-26. DOI:10.12691/jsa-2-1-4
15. **AKM Abdul Ahad Biswas**, Md. Tariqul Islam, Md. Abdus Sattar, Shamima Nasrin Mili and Tawrat Jahan. December, 2015. **Journal of Food Security**. Science and Education Publishing, U.S.A. 3 (5): 125-136. DOI: 10.12691/jfs-3-5-2
16. **AKM Abdul Ahad Biswas**, Md. Abdullah-Al Mamun, Md. Saifur Rahman, Md. Abdus Sattar and AKM Mostafa Zaman. November, 2015, **Submergence Rice Cultivation in Southern Bangladesh: Farmers Opinion and Adaptations Practices**. International Journal of Environment, Progressive Sustainable Development (PSD), NepJOL, Nepal. 4 (4): 100-113. DOI: <http://dx.doi.org/10.3126/ije.v4i4.14107>
17. **AKM Abdul Ahad Biswas**, Md. Abdus Sattar, Md. Afjal Hossain, Md. Faisal and Md. Rafiqul Islam. 12. November 2015. **An Internal Environmental Displacement and Livelihood Security in Uttar Bedkashi Union of Bangladesh**. Applied Ecology and Environmental Sciences; Science and Education Publishing, U.S.A., 3 (6): 163-175. DOI: 10.12691/aees-3-6-2
18. **AKM Abdul Ahad Biswas**, Md. Mohidul Hasan, Md. Saifur Rahman, Md. Abdus Sattar, Md. Afjal Hossain, Md. Faisal. September, 2015. **Disaster Risk Identification in Agriculture Sector: Farmer's Perceptions and Mitigation practices in Faridpur**. American Journal of Rural Development, Science and Education Publishing, U.S.A. 3 (3): 60-73. DOI: 10.12691/ajrd-3-3-1
19. **AKM Abdul Ahad Biswas**, AKM Mostafa Zaman, Md. Abdus Sattar, Md. Shahidul Islam, Md. Afjal Hossain, Md. Faisal. October 23, 2015. **Assessment of Disaster Impact on the Health of Women and Children**. Journal of Health and Environmental Research, Science Publishing Group, U.S.A. 1 (3): 19-28. DOI: [10.11648/j.jher.20150103.11](https://doi.org/10.11648/j.jher.20150103.11)
20. Md. Saifur Rahman, **A. K. M. Abdul Ahad Biswas**, Shahriar Rahman, Md. Tauhidul Islam, A. K. M. Mostafa Zaman et al. Jul. 21, 2015. **Climatic Hazards and Impacts on Agricultural Practices in Southern Part of Bangladesh**. Journal of Health and Environmental Research, Science Publishing Group, U.S.A. 1 (1): 1-11. DOI: [10.11648/j.jher.20150101.11](https://doi.org/10.11648/j.jher.20150101.11)
21. **AKM Abdul Ahad Biswas**. December, 2015. **An Exploration of Disaster Risk in Farmer's Community of Angaria sub-sub-district in Bangladesh**. British Journal of Environment and Climate Change, SCIENCE DOMAIN international, UK. 5 (4):20-30. DOI: [10.9734/BJECC/2015/22528](https://doi.org/10.9734/BJECC/2015/22528)
22. **AKM Abdul Ahad Biswas**, Nusrat Jahan Sonia, Lutfun Nahar, Md. Afjal Hossain, Md. Faisal. December, 2015. **Women's Vulnerabilities to Climate induced hazards and their Coping Strategies in southern Bangladesh**. British Journal of Education, Society & Behavioural Science. SCIENCE DOMAIN international, UK. 14 (1):19-28. DOI: [10.9734/BJESBS/2016/22763](https://doi.org/10.9734/BJESBS/2016/22763)
23. **Biswas, A.K.M.A.A.**, Sattar, M. A. , Zaman, A.K.M. M., Osman, M.S. and Jahan, R.. December 2014. **Flood Risk and Its Reduction Strategies Practiced by Women**. Journal of the Patuakhali Science and Technology University. Bangladesh. 5 (2):147-164. https://www.researchgate.net/publication/313065371_FLOOD_RISK_AND_ITS_REDUCTION_STRATEGIES_PRACTICED_BY_WOMEN
24. **AKM Abdul Ahad Biswas**. December, 2014. **Different natural and human induced risk factors and hierarchy of risk factors' impact in increasing community vulnerability of Patuakhali: Application of questionnaire and Analytic Hierarchy Process methods**. Journal of the Patuakhali Science and Technology University. Bangladesh. 5 (2):131-145. https://www.researchgate.net/publication/313065201_DIFFERENT_NATURAL_AND_HUMAN_INDUCED_RISK_FACTORS'_AND_HIERARCHY_OF_RISK_FACTOR'S_IMPACT_IN_INCREASING_COMMUNITY_VULNERABILITY_OF_PATUAKHALI_APPLICATION_OF_QUESTIONNAIRE_AND_ANALYTIC_HIERARCHY_PROCESS_
25. M. Shamsuzzoha, **A. K. M. Abdul Ahad Biswas**. June, 2010. **Sustainable biodiversity management of the Sundarban: Disaster management perspectives**. Journal of the Patuakhali Science and Technology University. 2 (1):79-91. https://www.researchgate.net/publication/313065408_Sustainable_Biodiversity_Management_of_The_Sundarban_Disaster_Management_Perspective
26. **A. K. M. Abdul Ahad Biswas**. June, 2010. **Comparison of gene maps and analysis of karyotype divergence in *Ovis aries* and *Bos taurus***. Journal of the Patuakhali Science and Technology University. Bangladesh. 2 (1):13-21.
27. M. M. Hasan, **A. K. M. Abdul Ahad Biswas** and R.A. Halim. December, 2009. **Feeding effect of urea and steam treated rice straw on growth of ram**. Journal of the Patuakhali Science and Technology University. Bangladesh. 1 (2):157-163.
28. **A. K. M. Abdul Ahad Biswas**. December, 2009. **Effect of green banana leaf (*Musa sapientum*) on the fresh liquid milk during preservation and transportation**. Journal of the Patuakhali Science and Technology University. 1 (2):111-123.
29. **A. K. M. A. A. Biswas**, P.M. Klenovitskiy, N. S. Marzanov. June, 2009. **Changing locus distance of specified sheep gene maps using conservative gene sequence information of cattle and sheep gene maps**. Journal of the Patuakhali Science and Technology University, Bangladesh. 1 (1):37-42.
30. **Biswas A. K. M. A. A.**, Islam M. N., Hossain M. M. and M. N. Hassan. 1998. **Effect of banana (*Musa sapientum*) leaf on the keeping quality of raw milk**. Bangladesh Journal of Animal Science. Bangladesh. 27 (1-2):163-169.

B. Scientific Books and Book Chapter Published:

1. Shamsuzzoha, Md., **Biswas, A. K. M. Abdul Ahad**, Hasan, Md. Mahmudul, Faisal, Md., Hazra, Papri, Ghosh, Rajan Chandra, Rasheduzzaman, Md., Debnath, Promi, Rahman, Md. Abdur, Shaw, Rajib, Izumi, Takako, Djalante, Riyanti, Imamura, Fumihiko. 2025. Determination of Constraints in Existing DRR Coordination Mechanisms Among Different Humanitarian Actors of Coastal Bangladesh. In: Shaw, R., Izumi, T., Djalante, R., Imamura, F. (eds) Two Decades from the Indian Ocean Tsunami. Disaster Risk Reduction. Springer, Singapore. https://doi.org/10.1007/978-981-96-2669-4_21
2. **Biswas A.K.M.A.A.**, Klenovitskiy P.M. and N.S. Marzanov. 2004. **Comparative analysis of genes order in domestic sheep (Ovis aries L.) and cattle (Bos taurus L.)**. Nakra Printers, Balaklabsky prospekt, Moscow, Russian. – (01-48) p. (Russian).
3. Marzanov N. S., Nasibov M.G., Zhirakov A.M., Klenovitskiy P.M., Kaplinskaya L.I., **Biswas A.K.M.A.A.**, Marzanova L.K., Ozerov M.U. and U.S. Marzanov. 2004. **Methodical recommendations on "Use of genetic markers in sheep breeding"**. Nakra Printers, Balaklabsky prospekt, Moscow, Russian. 2004 (In Russian) – (01-44) p. (Russian).
4. Marzanov N. S., Nasibov M.G., Zhirakov A.M., **Abdul Ahad Biswas A.K.M.**, Klenovitskiy P.M., Marzanov J.S., Marzanov N.S., B.A. Bagirov. 2003. **Scrabnichelnie Analoga gennom ve Obtsa e Krupnago Ragatavo Skota [Comparative analysis of genes in domestic sheep (Ovis aries L.) and cattle (Bos taurus L.)]** All Russian research Institute of Farm Animal Genetics and Breeding, Dubrovitsy, Moscow region, Russian. (In English) – (01-64) p.

C. Conference, Seminar and Workshop Proceedings/Presentations Paper:

1. Umma Maria Munni, Shamim Mia and **AKM Abdul Ahad Biswas**. 2021. **Effects of Biochar Application on Ammonia Emissions from Composting Organic Waste**. 17th Bangladesh Society of Agronomy Conference -Agronomy for Food and Nutritional Security. At: Bangabandhu Sheikh Mujibur Rahman Agricultural University, Salna, Gazipur 1703, Bangladesh
2. Saha, M. K., Mia, S., **Biswas, A.K.M.A.A.** and Sattar M. A. 2018. **Estimation of Methane Emission from Rice Fields in Bangladesh**. The 17th Bangladesh Society of Agronomy. Seminar on "Agronomy for Food and Nutritional Security". December, 2018. Bangabandhu Sheikh Mujibur Rahman Agricultural University, Salna, Gazipur 1703, Bangladesh.
3. **A.K.M. Abdul Ahad Biswas**. 2016. **Women and Children Friendly Disaster Risk Management. Regional seminar on "Women and Children Friendly Disaster Risk Management**. May 16, 2016. Organized by Department of Disaster Management (DDM), Ministry of Disaster Management and Relief (MoDMR), Bangladesh. Venue was DC's conference room, Barisal. Supported by District Administration, Barisal, Bangladesh.
4. **A.K.M. Abdul Ahad Biswas**. 2016. **Stakeholder's Activated Disaster Management in Bangladesh: from a reactive (prevention, preparedness and mitigation) to a proactive approach (DRR)**. March 15, 2016. Joint Seminar by National Defence College (NDC), Bangladesh and Divisional Administration, Barisal, Bangladesh on "Disaster Management in Southern Region of Bangladesh and the Government and NGO'S". Organized by District Administration, Barisal, Barisal Circuit House, Barisal, Bangladesh.
5. Md. Akhtaruzzaman and **A.K.M. Abdul Ahad Biswas**. 11 November, 2014. **Application of ICT Tools for Climate Change and Disaster Management in Bangladesh. ICT's for future Economic and Sustainable Agricultural Systems**. Australian Society of Information and Communication Technologies in Agriculture Inc. (ASICTA), Australia. 1 (1):548-562. ISBN: 978-0-646-92873-9. https://www.researchgate.net/publication/313065282_Application_of_ICT_Tools_for_Climate_Change_and_Disaster_Management_in_Bangladesh.
6. Dilanthi Amaratunga, A.K.M. Mostafa Zaman, Udayangani Kulatunga, **A.K.M. Abdul Ahad Biswas**, Richard Haigh, David Baldry et al. September, 2013. **CEREBELLA: Community Engagement for Risk Erosion in Bangladesh to Enhance Lifelong Advantage**. Proceedings of International Conference on Building Resilience, 1 (1):1-5. https://www.researchgate.net/publication/313065468_CEREBELLA_Community_Engagement_for_Risk_Erosion_in_Bangladesh_to_Enhance_Lifelong_Advantage
7. **A.K.M. Abdul Ahad Biswas**, Md. Mizanur Rahman Md. Lokman Ali and Md. Ariful Alam. 19th September 2012. **Food production and effects of global Climate Changes in Bangladesh: status and challenges**. Paper was presented by Prof Dr. Syed Sakhawat Husain, Vice Chancellor and Associate Professor Sultan Mahmud, to the seminar on 'Food production and global changes in Bangladesh'; Time: Wednesday 19th September, Location: Auditorium 3.13, Frederiksberg Campus, Thorvaldsensvej, Denmark. Arranged by Department of Plant and Environmental Science, Genetics and Microbiology Section, Faculty of Life Science, Copenhagen University, Denmark.
8. U. Kulatunga, A. K. M. M. Zaman, **A.K.M.A.A. Biswas**, A. Parvez and D. Amaralatunga. 2 & 3 September 2010. **Community risk assessment for disaster risk reduction: challenges and future**. Paper was presented to the Legal Research Symposium, Royal Institution of Chartered Surveyors' (RICS), research conference as conference paper, COBRA 2010 (Centre of Bioethical Research and Analysis) the Centre of Bioethical Research and Analysis. Paris, France. 1 (1):1-10.
9. Ayesha Akter, **A.K.M. Abdul Ahad Biswas**, Ahmed Parvez and Md. Shamsuzzoha. **Cyclone shelter management: A survey on cyclone SIDR victims of Bangladesh**. Patuakhali Science and Technology University, Bangladesh, University of Salford, UK. Paper presented to the conference "Breaking the Mould". Location: Calman Learning Centre, Durham University, UK on 03 August, 2012. Available on the site https://www.dur.ac.uk/sass/research/srilanka/breaking_the_mould/ and https://www.dur.ac.uk/resources/sass/research/esrc-srilanka/Md.Shamsuzzoha-CycloneShelter_Zohappt.pdf
10. **Biswas A.K.M.A.A.**, Bagirov V.A., Klenovitskiy P.M. and N.S. Marzanov. 2003. **Syntenic maps construction technique of domestic sheep (Ovis aries L.)**. Modern achievements and problems of Biotechnology of Agricultural Animals. Dubrovitsy, Moscow region, Russian. 1:153-155.
11. Marzanov N.S., Lutskanov P.I., Nasibov M.G., Marzanov J.S., Kanatbayev S. G., Davydova R.R. and **A.K.M.A.A. Biswas**. 2003. **Scientific and technical progress in Animal Husbandry of Russia – ecologically safe production**. Dubrovitsy, Russia. 01 (1-2):100-103 (Russian).
12. **Biswas Abdul Ahad A.K.M.** and P.M. Klenovitskiy. 2003. **Densitometry analysis of replicating structures of the first chromosome of sheep (Ovis aries L.) and base chromosomes of cattle (Bos taurus L.)**. Modern achievements and problems of Biotechnology of Agricultural Animals. Dubrovitsy, Moscow, Russia. 1 (1):86-88 (Russian).
13. Klenovitskiy P.M., **Abdul Ahad Biswas A.K.M.**, N.S. Marzanov. 2002. **Analysis of animal gene maps**. Modern achievements and problems of Biotechnology of Agricultural Animals. Dubrovitsy, Moscow, Russia. 1: 138-139 (In Russian).

D. Un-Published/Under Review Process (Currently Submitted/To be Submitted):

1. Md. Shahriar Hasan, **AKM Abdul Ahad Biswas**, Md. Safiur Rahman. 2024. Impact of climate change on groundwater quality with the special emphasis on potential trace elements (to be submitted to the journal).
2. Md. Shahriar Hasan, **AKM Abdul Ahad Biswas**, Md. Safiur Rahman. 2024. Climate Change implications for metal and metalloid dynamics in aquatic ecosystems in Kirtankhola river (to be submitted to the journal).
3. Fatema Tuz Zohra Bithi, **AKM Abdul Ahad Biswas** and Shamim Mia. 2021. **Development of Air Purifier to Reduce Indoor Air Pollution** (to be submitted to the journal).

Name and addresses of referees (who are not related to me by blood or marriage):

1. Name of Referee: Professor Dr. Khondoker Mokaddam Hossain (PhD, Massey University, New Zealand)

Current Position/Status: Pro Vice-Chancellor, Bangladesh University of Professionals (BUP); Ex-Professor and Founder Director, Institute of Disaster Management and Vulnerability Studies; Email: provc@bup.edu.bd; mokademdu@yahoo.com; Mobile (Dept): +8801534001406; Mobile (Personal): 01711383926. **Relationship with me:** Academic, Research and Development mentor and supervisor.

2. **Name of Referee:** Professor Dr. Mahbuba Nasreen (PhD, Massey University, New Zealand)
Current Position/Status: Pro Vice-Chancellor (Administration), Bangladesh Open University; Gazipur; Ex-Professor, Institute of Disaster Management and Vulnerability Studies; Email: mahbubadu@yahoo.com; mnasreen@bou.ac.bd, mnasreen@du.ac.bd, pvc_ac@bou.ac.bd ; Mobile (Dept): +8801703199363; Mobile (Personal): 01552415763. Phone: +88-02-996691163, 09666730730 Ext.103 (Gazipur Office), 09666730730 Ext. 203 (Dhaka Office). **Relationship with me:** Academic, Research and Development mentor and supervisor.

3. **Name of Referee:** Eng. Md Jahir Bin Alam (PhD, IIT, India)
Current Position/Status: Professor, Department of Civil & Environmental Engineering, Shahjalal University of Science & Technology, Kumargaon, Sylhet-3114, Bangladesh. Phone: 88-0821 713491 (EXT: 269), 88-0171209118, Email: jahiralam@yahoo.com. **Relationship with me:** Academic, Research and Development partner.

4. **Name of Referee:** Md. Shams-Ud-Din (Ph.D. in Food Science & Technology, UNSW, Australia)
Current Position/Status: Vice-Chancellor, German University Bangladesh; 38, Telepara, Joydebpur,Gazipur-1702, Bangladesh and Ex-Vice Chancellor, Patuakhali Science and Technology University, Bangladesh and Professor (Rtd), Food Technology and Rural Industries, Faculty of Agricultural Engineering & Technology; Bangladesh Agricultural University, Mymensingh, Bangladesh; Cell: 01714-075977, E-mail: drshams.bau@gmail.com; **Relationship with me:** (Ex) Vice Chancellor, PSTU and Academic, Research and Development mentor.

5. **Name of Referee:** Syed Sakhawat Husain (PhD in Animal Breeding, BAU and TUB, Berlin, Germany)
Current Position/Status: Professor (Rtd.), Department of Animal Breeding and Genetics, Bangladesh Agricultural University, Mymensingh, Bangladesh and Ex-Vice Chancellor, Patuakhali Science and Technology University, Bangladesh, HP: +8801774966482; E-mail: sshusain_bau@yahoo.com, **Relationship with me:** (Ex) Professor, Ex-Vice Chancellor and (Ex) Dean; and Academic, Research and Development mentor.

6. **Name of Referee:** Mozahar Ali (PhD in Agril Extension, University of Reading, UK)
Current Position/Status: Ex-Professor, Department of Agriculture, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gopalganj, Bangladesh; Ex-Academic Innovation Fund Management Specialist, Higher Education Quality Enhancement Program, UGC, Bangladesh and Ex-Professor, Graduate Training Institute, Bangladesh Agricultural University, Mymensingh, Bangladesh; HP: +8801711391190, E-mail: mozahar55@yahoo.co.uk; **Relationship with me:** (Ex) Professor, BAU and Academic and Research mentor.

7. **Name of Referee:** Mohammad Mujaffar Hussain (PhD in Animal Science, University of Reading, UK)
Current Position/Status: Livestock Waste Management Specialist and Ex-Professor, Department of Animal Science; Bangladesh Agricultural University, Mymensingh, Bangladesh; Tel: +880-91-55695 Ext. 2628 (Office), HP: +8801715474269, E-mail: mmujaffarh@yahoo.com; **Relationship with me:** (Ex) Professor, BAU and Academic and Research mentor.

8. **Name of Referee:** A.K.M. Mostafa Zaman
Current Position/Status: Ex-Professor, Department of Agronomy/ Ex-Dean, Faculty of Land Management and Administration/ Ex-Dean, Faculty of Disaster Management, Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh. Tel: +880-4427- 56014(Office), Ext.: 240, HP: +8801729077777; Fax: +880-4427-56009, E-mail: mostafazamanpstu@gmail.com; **Relationship with me:** (Ex) Dean, PSTU

9. **Name of Referee:** Md. Mukhlesur Rahman, (Ph. D. in Animal Science, KNU, South Korea)
Current Position/Status: Professor, Department of Animal Science; Bangladesh Agricultural University, Mymensingh, Bangladesh; Tel: +880-91-55695 Ext. 2628 (Office), Contact No: +8801933548922; Fax: +880-91-55810, E-mail: mmrahman.as@bau.edu.bd; **Relationship with me:** Professor, BAU

Research Student Supervision (Masters: 52; Bachelor: 41 and Post Graduate Diploma: 07):

- i. MS in Disaster Risk Science and Sustainability/Disaster Risk Management: Total 52 students
- ii. PGD in Disaster Management: Supervised 07 students
- iii. B.Sc. in Disaster Management: Supervised 41 students

N.B.: Currently (2024), I am supervising 10 master's student research projects in the field of DRR and CCA.

List of the Student's Research Project Supervision with Academic Session

A. MS in Disaster Risk Science and Sustainability/MS in Disaster Risk Management student research project supervision:

1.	Climate Change implications for Metal and Metalloid dynamics in Aquatic ecosystems in Kirtankhola River. Session: 2023
2.	Livelihood Disruption due to Flooding and River Bank Erosion in the Northern Part of Bangladesh. Session: 2024
3.	Assessing the Impact of Flood-Induced Losses on Agricultural Productivity and Adaptation Management Techniques: A Case Study of Chilmari Upazila, Kurigram District. Session: 2024
4.	Assessment of the Rural People's Knowledge and Perception of Climate Change and Variability: A Study of Galachipa Upazila, Patuakhali, Bangladesh. Session: 2024
5.	Risk assessment of displaced residents due to river erosion and suggested sustainable solutions in Nesarabad Upazila, Pirojpur district. Session: 2024
6.	Community Based Disaster Risk Assessment on Agricultural sector to risk reduction strategies: A case study on coastal area of Bangladesh. Session: 2023
7.	Disaster Risk Reduction and Sustainability in the Industrial Sector. Session: 2023
8.	Climate Change implications for Metal and Metalloid dynamics in Aquatic ecosystems in Kirtankhola River. Session: 2023
9.	Exploring the livelihood vulnerability and cultural change of river bank erosion in Faridpur. Session: 2023
10.	Impact of water pollution on human health & environmental sustainability in Kuakata district. Session: 2023
11.	An Underestimated Issue for Water Logging Disaster Risk Management in the Instance of Narayanganj Sadar, Bangladesh, Session: 2022
12.	Assessment of Disaster Risk and Mitigation Measures for Urban Area: Barisal City Corporation. Session: 2022
13.	Impact of Climate Change on Groundwater Quality with the Special Emphasis of Potential Trace Element. Session: 2022
14.	Disaster Risk reduction Interventions for south western Bangladesh: Perspectives of local communities. Session: 2022
15.	Assessing Risk Perception and Sustainability Awareness of Climate Change in Rural Communities of Barguna District. Session: 2022
16.	Impact of Climate Change on Crop Production: A Case Study of Kalapara Upazila of Patuakhali District. Session: 2022
17.	Assessment of Livelihood Vulnerabilities due to Climate Change Impacts on Patuakhali District. Session: 2022
18.	Disaster risk reduction infrastructure requirements for South-Western Bangladesh: Perspectives of local communities. Session: 2022
19.	Assessment of Riverbank Erosion on Socio-Economic Conditions in Bishkhali union of Kalapara Upazila, Bangladesh. Session: 2021
20.	Context of Roadway Accessibility Risk of Cyclone Shelters in Bakergon Area of Bangladesh. Session: 2021

21.	REDUCING CYCLONE IMPACTS IN THE COASTAL AREAS OF BANGLADESH: A CASE STUDY OF BARISHAL DIVISION. Session: 2020
22.	IMPACT OF MAJOR CLIMATE CHANGE ON THE COASTAL AGRICULTURAL SYSTEM: A CASE STUDY OF BARGUNA SADAR UPAZILA, BARGUNA. Session: 2020
23.	AN ASSESSMENT OF IMPACT OF RIVERBANK EROSION ON SOCIO-ECONOMIC CONDITION OF DAULATDIA UNION OF GOALANDA UPAZILA. Session: 2020
24.	STUDY ON OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM: A CASE STUDY OF COMFIT COMPOSITE KNIT LIMITED AT MIRZAPUR, TANGAIL. Session: 2020
25.	DETERMINING THE IMPACTS OF FLOOD ON THE LIVES AND LIVELIHOODS: A CASE STUDY OF RUPSHA UPAZILA, KHULNA. Session: 2020
26.	ACTUAL AND PERCEIVED CYCLONE INDUCED HEALTH RISK ANALYSIS AT DHANIA UNION OF BHOLA SADAR UPAZILA OF BHOLA DISTRICT. Session: 2020
27.	IMPACT OF PAYRA RIVERBANK EROSION AND MITIGATION MEASURES ON THE VULNERABLE COMMUNITIES OF DEULISUBIDKHALI UNION IN MIRZAGANJ UPAZILA AT PATUAKHALI DISTRICT. Session: 2020
28.	ASSESSMENT OF RISK MANAGEMENT STRATEGIES TOWARDS ENHANCING FOOD SECURITY. Session: 2020
29.	CLIMATE CHANGE IMPACT ON PLANT NURSERIES AND ADAPTATION STRATEGY AT NESARABAD UPAZILA OF PIROJPUR DISTRICT. Session: 2020
30.	Role of Different NGOs to the Livelihood Security at Kazirabad Union, Betagi Upazila, Barguna. Session: 2019
31.	Past and Future Trends Analysis of Human Health Risk in Relation to Various Natural Disasters. Session: 2019
32.	Estimating Cyclone Impacts on Rice Production in Bangladesh both for Past and Future Scenarios. Session: 2019
33.	Remotely Impacts and Risks From El Nino and La Niña On Climate Variables and Major Crops Production in Coastal Bangladesh. Session: 2019
34.	Impact of Climate Change on Agriculture and Its Adaptive Practices at Mehendigong Upazilla of Barishal District. Session: 2018
35.	Development of Air Purifier to Reduce Indoor Air Pollution. Session: 2018
36.	Effects of Biochar Application on Ammonia Emissions from Composting Organic Waste. Session: 2018
37.	Methane Emission from Rice Fields in Bangladesh: Estimation, Management Strategies, and Reduction in Sea Level Rise. Session: 2018
38.	Investigating the Social Safety Nets as Disaster Risk Reduction Option to Build Household Resiliency at Patuakhali District. Session: 2018
39.	Climate Change effects on fishers' Livelihood around the Andharmanik River: adaptation mechanism towards livelihood resilience. Session: 2017
40.	Adaptation strategy to reduce forage production relevant vulnerabilities through Improved Management Practices at Climate Change and Disaster Risk Situation. Session: 2017
41.	Adaptation study of Maize and Sunflower in Climate Change Induced Risk Reduction Issues at Patuakhali District. Session: 2017
42.	Adoption of Disaster Risk Reduction Strategy in Agriculture Sector and its Effectiveness in Climate Change Adaptation at Sharankhola Upazila. Session: 2017
43.	Vulnerabilities and Sustainable Adaptive Mechanisms to Climate Change in the Coastal Livelihoods of Bangladesh. Session: 2017
44.	Use of Shelter as a Suitable Measure for Disaster Risk Management in Golkhali, Galachipa, Patuakhali. Session: 2017
45.	Developing Cyclonic Risk Escaping Rice Cropping Pattern at Patuakhali District. Session: 2017
46.	Occupational Health and Safety Practices in Bangladesh: Study on Ready-Made Garment Factories at Gazipur, Dhaka. Session: 2017
47.	Impact of Climate Change on Agriculture Sectors and Possible Adaptation Measures: A Case Study of Tungipara, Gopalganj. Session: 2017
48.	Disaster Risk Assessment and Adaptation to Climate Change in Agriculture Sector at Taltali Upazila of Barguna District. Session: 2016
49.	Disaster Risk Reduction through diversified livelihood practices in coastal island of Bangladesh: study on Char kukri-mukri. Session: 2016
50.	Climate resilient livelihood adaptation practices through diversified options in Barguna sadar upazila. Session: 2016
51.	Implication of indigenous knowledge for climate smart disaster risk reduction in Dashmina Upazila of Patuakhali district. Session: 2016
52.	Climate change impact on Disaster Risk Reduction Activities in Agriculture of Barguna District. Session: 2015
53.	Fluctuation Effect of Tidal Flooding on the Livelihood of the People in Coastal Patuakhali District. Session: 2015
54.	Adaptation Mechanisms Adopted by Local People in the Face of Tidal Flood, Cyclone and River Erosion in Galachipa. Session: 2015
55.	Salinity Intrusion Impact On Plant Nutrients and Adaptation Practices in Kalapara Upazila. Session: 2015
56.	Salinity Impact on Plant Nutrients and Adaptation Practices in the East Sundarbans of Bangladesh. Session: 2015
57.	Evaluation of Bio-security Risk Management Practices in Broiler Farming at Sadar Upazila of Patuakhali District to Reduce Vulnerability. Session: 2015

B. BSc in Environmental Science and Disaster Management /PGD in Disaster Management student Internship and/Research project supervision:

1. Health Related Risks and Its Impact on Community People of Mehendiganj Union of Barishal District. Session: 2019
2. Assessing the Existing Fecal Sludge Management Practices in Khulna City Corporation. Session: 2019
3. Synthesis of Novel Sorbent to Remove Arsenic Risk from Safe Water. Session: 2019
4. Enhancing the Efficacy of Air Purification Plant using Different Absorbent and Solvent. Session: 2019
5. Impact of Climate Change on Water and Sanitation in Slum Areas of Barishal City. Session: 2018
6. Impact of Climate Change on Urban Slum Dwellers in Barishal City Corporation. Session: 2018
7. Study on Occupational Health and Safety Management System of Comfit Composite Knit Limited at Mirzapur, Tangail. Session: 2018
8. Sustainable Livelihood and Disaster Management for Resilient Community of Barishal City Corporation. Session: 2018
9. Impact of Climate Change on Urban Slum Dwellers in Barishal City Corporation. Session: 2018
10. Vulnerability Assessment of Street Children in Barishal City. Session: 2018
11. Urban Disaster Management Policy and Practice in BCC: A Case Study. Session: 2018
12. Analyzing of Existing Disaster Risk Management Strategies in Agriculture Sector at Tiakhali Union, Kalapara Upazila. Session: 2018
13. Reducing Flood Risk By Existing Adapted Indigenous Knowledge At Char Hazigange Of Sadarpur Upazila In Faridpur District. Session: 2017
14. Existing Practices of Indigenous Knowledge for Disaster Management Preparedness at Kazir-Char Union of Muladi Upzilla in Barisal District. Session: 2017
15. Analysis of disaster risk perception and livelihood of the community people of Auliapur union of Patuakhali Sadar Upazila. Session: 2017
16. Reducing Livelihood Vulnerability due to Climate Induced Disaster through Sustainable Livelihood Approach: A Study on South Central Coastal Nilganj Union of Kalapara Upazila in Bangladesh. Session: 2017
17. Livelihood Vulnerability Due to Disaster: Strategies for Building Disaster Resilient Livelihood at Gulishalkali Union of Amtali Upazila in Barguna District. Session: 2017
18. Assessment of Groundwater and Rainfall Fluctuation and its Correlation with Rainfall Intensity at Dumki Upazila. Session: 2016
19. Climate Resilient Homestead Intervention and its Benefits in Disaster Risk Reduction at Wazirpur Upazila, Barisal. Session: 2016

20. Community Initiated and Practiced Climate Resilient Technology and its Efficiency in Disaster Risk Reduction at Bakerganj, Barisal. Session: 2016
21. Study on Assessment of Soil Erosion at Dumki Upazila of Patuakhali District. Session: 2016
22. Mitigating Irrigation Water Risk through Canal Excavation: Challenges & Opportunities. Session: 2016
23. Changing Way to Disaster Risk Reduction: A Study of Community Based Disaster Risk Management Approach in Golkhali, Galachipa, Patuakhali. Session: 2016
24. Scope of Social Protection Mechanisms on Climate Change Adaptation in Bangladesh: A Case Study on Lalua Union of Kalapara, Patuakhali.. Session: 2015
25. Women's Vulnerabilities to Climate induced hazards and their Coping Strategies in Bauphal Upazila of Patuakhali District. Session: 2015
26. Disaster Risk Assessment in Agriculture: community-based analysis. Session: 2015
27. Impacts of Climate Induced Hazards on Crop Production and Identifying Community Managed Adaptation Practices in Mirzaganj Union, Patuakhali. Session: 2015
28. Community Based Disaster Risk Assessment: Agriculture Related Factors Analysis. Session: 2015
29. Risk assessment and impact on agriculture-based community. Session: 2015
30. Vulnerability to Health Hazards and Coping Strategies in Amtoli, Taltoli, Patharghata and Sadar Upazila of Barguna District: Women Perspective. Session: 2015
31. Impact of Disaster on Women and Children Health.Session: 2015
32. Impacts of Sea Level Rise on Submergence Rice Cultivation: Farmers Opinion and Adaptations Practices.Session: 2015
33. Disaster Risk Identification and Mitigation in Agriculture and Farmer's Perception. Session: 2015
34. Effect of Land Use Change on Eco System Services in Barishal Sadar Upazila. Session: 2020
35. Salinity Hazards Assessment in Coastal Area of Bangladesh. Session: 2020
36. Socio Economic Impact Assessment of River Bank Erosion: A Case study in Doulotdia, Goalanda. Session: 2020
37. Analysis of Socio-economic Condition of Environmental Refugees due to Climate Change in Dhaka City.Session: 2020
38. Determining the Impacts of Flood on The Lives and Livelihoods of people in Bangladesh: A case Study of Rupsha Upazila of Khulna.Session: 2020
39. Actual and perceived cyclone induced health risk analysis at Barishal sadar in Bangladesh. Session: 2020
40. The Impact of Payra River Bank Erosion and Mitigation Measures for the Vulnerable Communities of Kakrabunia Union, Mirzaganj Upazila, Patuakhali. Session: 2020
41. An Assessment on the Risk Management Strategies Oriented towards Enhancing Food Security. Session: 2020
42. A case study on Pagla sewage treatment plant from the pollution reduction point of view in Narayanganj, Bangladesh. Session: 2020

Experience in Research and Development Projects/Special Activities Performed and Achievements (From 2008 to till date):

1. **Name of the Research/ Development Project:** Impact of climate change on groundwater quality with the special emphasis on potential trace elements
Total Cost: 5,00,000.00
Project Life: One year during 2023-2024
Funding Organization: Patuakhali Science and Technology University, Patuakhali, Bangladesh and Chemistry Division, Bangladesh Atomec Energy Commission, Dhaka, Bangladesh.

Duties/ Responsibilities: Jointly wrote research proposal and collection of funds; Supervising Graduate research students; Designing and planning of the research; Analyzing data, research report writing, editing, presentation and publishing findings in scientific journals etc.
Achievements: Final report will be submitted on March, 2024.

2. **Name of the Research/ Development Project:** Climate Change implications for metal and metalloid dynamics in Aquatic ecosystems in Kirtankhola River.
Total Cost: 5,00,000.00
Project Life: One year during 2023-2024
Funding Organization: Patuakhali Science and Technology University, Patuakhali, Bangladesh and Chemistry Division, Bangladesh Atomec Energy Commission, Dhaka, Bangladesh.

Duties/ Responsibilities: Jointly wrote research proposal and collection of funds; Supervising Graduate research students; Designing and planning of the research; Analyzing data, research report writing, editing, presentation and publishing findings in scientific journals etc.
Achievements: Final report will be submitted on June, 2024.

3. **Name of the Research/ Development Project:** Effect of Biochar Feed Supplementation on Growth Performance and Heavy Metal Content in Poultry.
Total Cost: 1,00,000.00
Project Life: One year during 2022
Funding Organization: Patuakhali Science and Technology University, Patuakhali, Bangladesh and Chemistry Division, Bangladesh Atomec Energy Commission, Dhaka, Bangladesh.

Duties/ Responsibilities: Jointly wrote research proposal and collection of funds; Supervising Graduate research students; Designing and planning of the research; Analyzing data, research report writing, editing, presentation and publishing findings in scientific journals etc.
Achievements: Formulate lab-based biochar feed supplement.

4. **Name of the Research/ Development Project:** Development of Air Purifier to Reduce Indoor Air Pollution

Involvement /Role Played: Principal Investigator
Total Cost: BDT100,000/-(\$1,200);
Project Life: From 01 July 2018 to 30 June, 2019.
Funding Organization: Patuakhali Science and Technology University, Patuakhali, Bangladesh.
Duties/ Responsibilities: Writing research proposal and collection of funds; Supervising Graduate research students; Designing and planning of the research; Analyzing data, research report writing, editing, presentation and publishing findings in scientific journals etc.
Achievements: A lab based low cost air purifier using conventional material is modeled to reduce indoor air pollution.

5. **Name of the Activity Performed:** Training of Disaster Management Act and Standing Orders on Disaster from 27 to 29 August, 2017, Resource Development Foundation, Barguna, Bangladesh

Involvement /Role Played: Team Leader/Master Trainer
Funding Organization: Development Organization of Coastal Area's People (DOCAP), Barguna, Bangladesh and Empowering Local and National Humanitarian Actors (ELNHA). Conducted by Community Development Centre (CODEC); Funded by OXFAM, GB.
Duties/ Responsibilities/Achievements: Conducted training program at district level on Standing Orders of Disaster (SOD) for humanitarian actors for three-day-long to reduce loss of people's lives and livelihood through effective disaster preparedness and response and to build capacity of humanitarian actors and relevant stakeholders to serve vulnerable people with effective support during emergency. Through this training the apprentice

get understanding about roles and responsibility of local humanitarian actors and relevant stakeholders regarding disaster management act and SoD for effective disaster preparedness and response during emergency. A total of 35 participants were district level selected NGO actors, DRRO, UzDMC, UDMC, DDMC, Relevant LGIs, Red Crescent Society, Media, Fire service, Academia, Private sector (Biksh, Rocket) and relevant alliances.

6-7. Name of the Research/ Development Project: Two Projects: ELNHA-1, Barguna: Determination of Constraints in Existing DRR Coordination Mechanisms among Different Humanitarian Actors of Coastal Bangladesh and **ELNHA-2, Patuakhali:** Knowledge Gaps Assessment of Disaster Induced Humanitarian Issues Mitigation Approaches in Coastal Bangladesh.

Involvement /Role Played: Focal Point and Team Research Coordinator as Dean of the Faculty for both projects.

Total Cost: For ELNHA-1, Barguna BDT 3,88,800/- (\$4,600); For ELNHA-2, Patuakhali BDT.3,88,800/- (\$4,600);

Project Life: January, 2016 to December, 2020 for Both projects.

Funding Organization: For Both Project: "Empowering Local and National Humanitarian Actors (ELNHA). Conducted by Faculty of Disaster Management (FDM), Patuakhali Science and Technology University (PSTU) and Community Development Centre (CODEC); Funded by OXFAM, GB

Duties/ Responsibilities/Achievements: 1. Act as focal point and principal administrative liaison officer for both projects. 2. Coordinated and administered research study associated activities. 3. Assisted in project proposal writing, planning, budgeting and fund hunting. 4. Recruited graduate research assistants and selected research associates (faculty members); 5. Implemented the project following standard and quality data collection, analyzing, interpreting and research report writing and publication in scientific journals; 6. Ensured the regular and efficient day-to-day research activities and data collection activities; 7. Act as the focal administrative point of contact for HEI and partner organization team members and as the principal operational liaison officer for other research organizations, funding agencies and regulating bodies. 8. Coordinates the day-to-day activities of the research groups for technical and intellectual supports, fund management and regular visiting the project sites for efficient project implementation with standard quality; 9. Monitored the progress of research activities; achievements of milestones following indicators and maintains records of research activities; 10. Prepared periodic, monthly and biannual reports as required by university and funding agencies. 11. Extension and dissemination of the research findings among the stakeholders of the CODEC-ELNHA project through training-workshop, awareness building and mock drills at the project sites. 12. Maintaining usual communications among two parties of the project as deemed necessary.

8. Name of the Activity Performed: B.Sc. in Disaster Management (Hons) Program Level Self Assessment and External Peer Review Activities

Involvement /Role Played: Team Leader, Self Assessment Committee, Faculty of Disaster Management, PSTU.

Total Cost: BDT.9,58,800/- (\$11,300);

Activity Life: January, 2016 to August, 2018.

Funding Organization: Quality Assurance Unit, University Grants Commission of Bangladesh (QAU, UGC, BD).

Duties/ Responsibilities: 1. Act as Team Leader for Program Self Assessment and External Peer Review Activities for accreditation. 2. Activities performed to finalized the SA report are survey, workshop for validation, made the arrangements for data entry and analysis of information and feedback collected by stakeholder survey; 7. Prepared final Self Assessment Report; 8. Facilitated external peer review with necessary all documents. 9. Prepared the draft improvement plan for BSc in Disaster Management following the validation from faculty members. 10. Prepared final SA report, Improvement plan for BSc in Disaster Management program.

Achievements: 1. Self assessment report with program level improvement plan; 2. The B.Sc. in Disaster Management (Hons) Degree program at Faculty of Disaster Management, PSTU awarded with 'GOOD' grade.

9-10. Name of the Research/ Development Project: CBACC-CF-1, Char Fashion, Bhola: Disaster Risk Reduction through diversified livelihood practices in coastal island of Bangladesh: study on Char kukri mukri and **CBACC-CF-2, Sadar, Barguna:** Climate resilient livelihood adaptation practices through diversified options in Barguna sadar upazila

Involvement /Role Played: Supervisor and Principal Investigator of the both project

Total Cost: CBACC-CF-1, Char Fashion, Bhola: BDT.4,00,000/- (\$4,750); CBACC-CF-2, Sadar, Barguna: BDT.4,00,000/- (\$4,750);

Project Life: October, 2014-September,2015 for both projects;

Funding Organization: "MSc Research on Disaster Risk Reduction, Climate Change Adaptation and Livelihoods Project". Funded by Bangladesh Government NAPA follow up project- "Community Based Adaptation to Climate Change through Coastal Afforestation (CBACC-CF)"; Funded by GEF, UNDP, SDC, EKN and GoB.

Duties/ Responsibilities: 1. Project implementation and supervisions; 2. Monitoring the work of the thesis students and maintaining the time line; 3. Designing and planning of the research, Analyzing data, research report writing, editing, presentation and formulation of knowledge product; 4. Fund management and regular visiting the project sites for conducting the data collection, field research and develop knowledge products for publication.

Achievements: The interventions under CBACC-CF projects research at Bhola e.g. Forest, Fish and Fruit (Triple F model) discovered – 1. Positive changes in the life of coastal people by facilitating collective resource management and income generation activities; 2. Enhancing adaptive capacity; strengthening local institutional capacity to enabling collaboration between govt. departments and community with diversified knowledge in climatic risk reduction measures; 3. Enhanced cost-effective implementation of the new adaptation technology and ensure social and gender equity and empowerment in the access to livelihood resources. 4. The research at Barguna sadar concludes that the climatic vulnerability on different livelihood sectors can be removed through effective adaptation measures and by employing technologies along with local knowledge.

11. Name of the Research/ Development Project: Establishment of Model Geese Production Demonstration Farm at PSTU and Performance Analysis under Free Range Rearing Condition.

Involvement /Role Played: Principal Investigator and Farm Manager

Total Cost: BDT.1,60,000/- (\$2,000);

Project Life: July, 2011 to December, 2013.

Funding Organization: Patuakhali Science and Technology University, Patuakhali, Bangladesh.

Duties/ Responsibilities: i. Analysis of existing geese rearing systems in terms of resource use efficiency, production and productivity, income, employment and sustainability; ii. Evaluation and identification of geese rearing system through participatory approach that ensures threshold level of income for the livelihood security in disaster prone area; iii. Establishment of Model Geese Production Demonstration Farm at PSTU; iv. Development and evaluation of free range geese rearing system effects at PSTU and their contribution in increasing live weight gain and egg production; v. Imparting training and capacity building of various stakeholders on sustainable geese production.

Achievements: Established a Model Geese Production Demonstration Farm at PSTU and showed moderate performance under free range rearing condition at coastal region.

12. Name of the Research/ Development Project: Capacity development of Department of Environmental Science and Disaster Management (DESDM) for providing life skill based tertiary education targeting to human safety and security.

Involvement /Role Played: Associate Sub Project Manager/ Alternate Sub-project Manager

Total Cost: BDT 41.999 Million (\$ 594,053).

Project Life: January, 2011 to June, 2013.

Funding Organization: World Bank and GoB Funded Project, HEQEP-PSTU, University Grants Commission of Bangladesh.

Duties/ Responsibilities: The principal objective of this project was to enhance the capacity of the Department of Environmental Science and Disaster Management, PSTU in order to ensure quality education services and to be a Centre of Excellence (CoE) on climate change and disaster management in Bangladesh.

As an associate/alternate sub project manager perform the following activities and contributed to achieve the following objectives: 1. Principal project writer for fund hunting; 2. Designing and planning of the project implementation; 3. Whole responsibility of the project implementation following the milestones and indicators; 4. Act as the focal administrative point of contact for proposal submitting entity and UGC-World Bank inspection teams and as the principal operational liaison officer for other research organizations, funding agencies and regulating bodies on behalf of Sub-Project Manager(SPM). 5. Coordinates the day-to-day teaching and learning facilities development and research laboratories development activities providing technical and intellectual supports, fund management and regular visiting the project sites for efficient project implementation with standard quality on behalf of SPM; 6. Day-to-day activities performed according to the project procurement plan following appropriate procurement procedures prescribed by World Bank and UGC. 7. Performed all responsibilities for preparation of all related WB standard procurement document for efficient procurement. 7. Regularly maintained project fund management and project accounts according to the world bank standard and regular visiting the project sites; 5. Maintaining usual communications among all regulatory bodies of the project as deemed necessary; 6. Prepared periodic, monthly, biannual and annual reports as required by university and UGC-World Bank. 7. Performed technical responsibilities to establish undergraduate and graduate laboratories etc.

Achievements:

- Approved syllabi and content of 98 courses and guidelines for B.Sc. in Disaster Management (Hons) program.
- Approved curricula and Approved syllabi with content for M.S. Degree in disaster management, climate change, biodiversity management, natural resource management
- Developed learning materials and teaching aid and ensured access of student in individual computers and teachers supported by modern multimedia support
- Access of reference text books, national and international journals, web journals etc
- Developed 6 modern equipped laboratories in 06 Single spaces with optimum laboratory space and capacity with improved architectural design, safety and environmental quality. (GIS and remote sensing, Meteorology, Geophysics, Geo-biology, Environmental Science, Oceanography, Disaster Management, Emergency Management, Disaster Risk Reduction)
- Strengthened capacity of local teaching staff, trained manpower to functional modern laboratories and available external resource persons
- Treasured national and international knowledge for the students, researchers and teachers.
- Established modern library with developed training modules; available trainees manual, facilitator guide books
- Nationwide networking on disaster management and strengthened networking and strategic partnership with national and international universities and research organizations.

13. Name of the Activity/Project: Curricula Development and Quality Assurance Consultant Team, CP 471, HEQEP-PSTU, 'Capacity Development of Department of Environmental Science an Disaster Management' project, Faculty of Disaster Management, PSTU

Involvement /Role Played: Consultant Team Member

Total Cost: BDT 16,47,66,300/- (\$20,000)

Project Life: From 11.01.2013 to 29.03.2013

Funding Organization: Capacity development of Department of Environmental Science and Disaster Management (DESDM) Project, PSTU CP-471, UGC, GoB-World Bank Funded Project.

Duties/ Responsibilities: Developed, Reviewed, Updated and Formatted Courses, Course Content, Syllabus and Curricula is being practiced in BSc/MS/PGD/Training courses in Disaster Management program at PSTU.

Activities Done/Achievements:

- Collect and review available resources, especially curriculums of Climate & Environmental Changes issues and Disaster Management of the Asia and Pacific countries.
- Prepare content, organization structure and the scope of the curriculum jointly with team members.
- Develop the whole document in consultation with team members by adapting the international or regional courses into Bangladesh and Global context, and upgrading the existing course outlines of Disaster Management Curricula and syllabi and DRR trainings in Bangladesh
- Discuss with persons from government departments, technical institutions and humanitarian agencies related to DRR which could provide input to the sessions of the curriculum.
- Prepare the second draft by incorporating feedback from the workshop (in consultation with team members)
- Develop proper Guidelines for DM course
- Conduct evaluations of the curricula, syllabi and guidelines which would elicit feedback/comments for improvement of the document
- Plan, implement and follow up of the initiative with the support from Host Organization
- Final draft with necessary supporting documents/references to be handed over to the Faculty of Disaster Management, Patuakhali Science and Technology University, Patuakhali

14. Name of the Research/ Development Project: Seasonal Effect on Performance of Broiler at Different Managemental Regime and Its Impact on Farmers' Profitability

Involvement /Role Played: Associate Investigator-2

Total Cost: BDT 21, 50,000/- (\$26,000)

Project Life: From 01.01.2010 to 31.12.2011

Funding Organization: Ministry of Science and Information and Communication Technology; Government of the People's Republic of Bangladesh; Bangladesh Secretariat, Dhaka

Duties/ Responsibilities: Under the supervision of the Project Director following Duties/ Responsibilities were performed: 1. writing research grant proposal and collection of funds; 2. designing and planning of the research; 3. Analyzing data and publishing finding in scientific journals; 4. Performing research activities with team coordinator, research associates and research assistants; 5. Data analysis, research report writing, editing and presentation; 6. Writing and editing manuscript for publication etc. 7. As an Associate Investigator assured the responsibility of the Project in case the Principal Investigator leaves the Institution/Organization. 8. As the associate investigator coordinated the field related activities. 9. Maintained the accounts and project activities under supervision of the Principal Investigator. 10. Other activities performed are like collection of the data and establishment of a regular communication with the related work already performed or in progress in other association/organization or at other institutes.

Achievements: This research project found out that the stocking density and feeding regimes had no significant effect on different carcass parts of broiler except higher abdominal fat deposition was found in higher stocking density groups. Finally, it can be concluded that during summer the stocking density 12 bird/m² fed on crumble feed may be profitable for commercial broiler production up to six weeks in Bangladesh condition.

15. Name of the Research/ Development Project: Community Engagement for Risk Erosion in Bangladesh to Enhance LifeLong Advantage (CEREBELLA)

Involvement /Role Played: Project Expert-1

Total Cost: BDT47,56,609.31 (42,750 £)

Project Life: October, 2010 to September, 2013

Funding Organization: A joint Project with University of Salford, UK and Patuakhali Science and Technology University, Bangladesh Funded by "International Strategic Partnerships in Research & Education (INSPIRE)" award, British Council, UK in 2010.

Duties/ Responsibilities: 1. Principal Project writer- HEI partner Bangladesh Part and fund hunting; 2. Research activities carried out to develop information base on hazard, vulnerability and risk and development of DRR and climate change adaptation strategies with the engagement of community and local authority in Patuakhali; 2. Curriculum development and enhancement at postgraduate and undergraduate levels of the partner institutions; 3. Effective dissemination of research findings within partner institutions, relevant policy makers, practitioners, research and academic communities for knowledge sharing etc.

Achievements: CEREBELLA promotes the UN disaster resilient city concept by getting the involvement of communities in designing and engaging in disaster risk reduction (DRR) and climate change adaption activities to develop a strong local information base on hazards, vulnerability and risk of community.

16. Name of the Research/ Development Project: "CDMP, UNDP Supported Disaster Management Activities" in Department of Environmental Science and Disaster Management (DESDM), PSTU.

Involvement /Role Played: Project Expert, Office Manager and Recourse Person for Expert Consultations Workshop

Total Cost: BDT 13, 65,000.00 (\$19,400).

Project Life: From August 2008 to April, 2010

Funding Organization: Comprehensive Disaster Management Programme (CDMP); Ministry of Food and Disaster Management (MOFDM) Bangladesh and UNDP, DFID, AUSAid, EU and SIDA.

Duties/ Responsibilities/ Achievements: Utilization of the resource and capacities effectively; Encouraging all agencies, stakeholders to follow national framework on disaster management led by Ministry of Food and Disaster Management and compliment existing government system; Promoting and exchanging knowledge sharing of scientific and technical information of both the organization/programme on disaster management issues; Receive technical support to the Department of Environmental Science and Disaster Management, PSTU from CDMP to jointly offering under-graduate and graduate Degrees in Disaster Management in future; Organised expert consultation workshops, five-day-long training programme on Disaster Management among potential disaster managers; PGD programme in Disaster Management, distributed research grants among potential PGDinDM students and two disaster management national seminars.

Achievements: Through expert consultations workshop formulated the B.Sc. in Disaster Management (Hons) Curricula layout; Post Graduate Diploma in Disaster Management curricula lay out and 5-day-long training program on Disaster Management curricula layout.

17. Name of the Activity/Research/ Development Project: Capacity Development For Hazard Risk Reduction Adaptation (CATALYST).

Involvement /Role Played: Regional Think Tank Member from Bangladesh.

Project Life: October, 2011 to September, 2013.

Funding Organization: The project has received funding from the European Union's Seventh Framework Programme.

Duties/Responsibilities/Achievements: CATALYST was a multi-regional stakeholder think tank for fostering capacity development in disaster risk reduction and climate change adaptation. CATALYST set up a multi-regional think tank covering four regions-Central America and the Caribbean, East and West Africa, the European Mediterranean, and South and Southeast Asia, intending to strengthen capacity development for stakeholders involved in disaster risk reduction (DRR) and climate change adaptation, in the context of natural hazards. As a member from Bangladesh, a South and Southeast Asian region, role played was to convey opinion, exchange views, share experience and recommendations on DRR and CCA through virtual meeting, workshops and online/bilateral discussions for capacity development in DRR and climate change adaptation from the perspective of governance issues. Made presentation on "Work in Capacity Development for DRR/CCA and Capacity development related to State-of-the-Art and Best Practices in DRR/CCA: Faculty of Disaster Management (FDM), Patuakhali Science and Technology University (PSTU), Bangladesh". Presented to the Catalyst Project Regional Workshop for South and Southeast Asian Region. 23 to 25 January 2013, Bangkok, Thailand. Hosted by Economic and Social Commission for Asia and the Pacific. United Nations Building, Rajadamnern Nok Avenue, Bangkok 10200, Thailand.

18. Name of the Research/ Development Project: Improvement of locally available Indigenous cattle (Bos indicus) found in southern part of Bangladesh:

Phenotypic Characterization.

Involvement /Role Played: Project Director

Total Cost: BDT 75,000/- (\$1,000)

Project Life: July, 2008-June, 2009.

Funding Organization: University Grants Commission of Bangladesh.

Duties/ Responsibilities/Achievements: Characterize morphologically the indigenous cattle found in the southern part of Bangladesh; enlisted their productive and reproductive performances; Observe the husbandry practiced for locally available indigenous non descriptive cattle.

19. Name of the Research/ Development Project: Livestock and Poultry Production Development in Coastal Area

Involvement /Role Played: Chief Investigator

Total Cost: BDT 75,000/- (\$1,000)

Project Life: July, 2008-June, 2009

Funding Organization: Patuakhali Science and Technology University, Patuakhali, Bangladesh.

Duties/ Responsibilities/Achievements: 1. Observed the livestock and poultry production system especially for feeding system and feeding habit, breeding system, preventive health care system and management system of locally available indigenous non-descriptive livestock and poultry to develop a grass rout level medium to low input livestock and poultry production system; 2. Identified constraints related to livestock feeding, breeding, preventive health care, reproduction and management system of those livestock and poultry productions are met by farmers; 3. Assessed productive and reproductive performances of local livestock with objectives of promoting sustained improvements in income, nutrition, and employment for the landless, small and marginal farmers in this region; and 4. Developed a sustainable technology for livestock and poultry production for the people's whose are living along the rivers of Galachipa Upazila in Patuakhali district and implementation of this technology for the socio-economic development of this coastal area.

Employment History and Duties/ Responsibilities/Achievements/Experiences:

A. Tenure Track Teaching, Research and Development Position:

1. Name of the post and Status: Professor (Highest/Executive Tenure Track Position)

Name of the Institute/Organization: Department of Disaster Risk Management, PSTU, Bangladesh

Tenure of service (D/M/Y): From 18/10/2016 To Till Date; **Length of Service:** Above 08 years

Duties/ Responsibilities/Achievements: i. Own Research and development project writing, fund hunting and implementation of the project related to DRR, CCA. ii. Supervise Masters, PGD and Under Graduate students; iii. Teaching different courses at B.Sc., PGD and M.S. in Disaster Management level students. iii. Support to the Disaster Management Faculty and University to review and update the existing curricula in Climate Change, Environment and Disaster Management. iv. Contribute to the development and operation of the Faculty of Environmental Science and Disaster Management on professionalizing the Environment and Disaster Management in Bangladesh. v. Support the Dean, Faculty of Environmental Science and Disaster

Management; Pro-Vice Chancellor and Vice-Chancellor of the University on establishing DRR and CCA related academic and research collaboration with national and international Universities and Institutions etc. vi. As a member of all statutory committees I played role as per university act.

2. Name of the post Status: Associate Professor (Tenure Track Promoted Position)

Name of the Institute/Organization: Department of Disaster Risk Management, PSTU, Bangladesh

Tenure of service (D/M/Y): From 24/12/2011 To 17/10/2016; **Length of Service:** About 04 years 10 months

Duties/ Responsibilities/ Achievements: i. Teaching different courses at B.Sc., PGD and M.S. in Disaster Management level students. ii. Supervise Masters, PGD and Under Graduate students; iii. Own Research and development project writing, fund hunting and implementation of the project related to DRR, CCA. iv. Support to the Disaster Management Faculty and University to review and update the existing B.Sc. and M.S. in Disaster Management curricula. v. Contribute to the development and operation of the Faculty of Disaster Management on professionalizing the disaster management in Bangladesh. vi. Support the Dean, Faculty of Disaster Management and Vice Chancellor of the University on establishing DRR and CCA related academic and research collaboration with national and international Universities and Institutions etc.

3. Name of the post Status: Assistant Professor (Tenure Track Promoted Position)

Name of the Institute/Organization: Department of Environmental Science and Disaster Management, PSTU/ Department of Disaster Risk Management, PSTU, Bangladesh

Tenure of service (D/M/Y): From 11/05/2010 To 23/12/2011; **Length of Service:** About 01 year 08 months

Duties/ Responsibilities/Achievements: i. Very big responsibility performed to develop a new discipline on Climate change, Environment and Disaster Management for under graduate, graduate and other students. ii. Formulated courses, course content, course material, teaching and learning facilities and made available for the faculty members and teaching staffs. iii. Developed research and development proposal, submitted proposal for fund hunting, communicated with competent authority to get the validation, affiliation and approval for syllabus, curricula etc and for student admission at different levels of disaster management education. iv. Award wined from World-Bank and British Council INSPIRE project; v. Developed infrastructure for Laboratory with appropriate space and instrument with individual computers, establish new library with available books, teaching materials, guides resources in climate change and disaster management. vi. Organized workshop, seminar, meeting, discussion; written and verbal communication with GoB, NGO, INGO, national level experts, related field practitioners, academician, researchers, government officials, GoB appropriate authority etc for expert consultation; establishing partnership and written MoU document for technical help and continuous cooperation. vii. Responsibilities for teaching and learning of the students in BSc in Disaster Management at under-graduate, graduate levels, PGD levels and continuing education of teachers and researchers. viii. Carried out research and co-operate in and develop teaching and supervising within the disaster management, CCA, DRR, emergency management and environment related subjects etc. ix. As well as performed Own research within disaster risk management in Agriculture sector; Livestock environment etc. x. Promoted and participated in interdisciplinary research related to the activities of the faculty are also included. xi. Support the Chairman of the Department and Dean, Faculty of Disaster Management and Vice Chancellor of the University on establishing DRR and CCA related academic and research collaboration with national and international Universities and Institutions etc.

4. Name of the post Status: Assistant Professor (Tenure Track Promoted Position)

Name of the Institute/Organization: Department of Animal Science, PSTU, Bangladesh

Tenure of service (D/M/Y): From 18/10/2008 To 10/05/2010; **Length of Service:** About 01 year 07 months

Duties/ Responsibilities/Achievements: i. Responsibilities for teaching and learning of the students in BSc in Agriculture and DVM at under-graduate, graduate levels and continuing education of teachers and researchers. ii. Carry out research and co-operate in and develop teaching and supervising within the Animal Husbandry subjects. iii. Own research within applied animal science, livestock production; feeds and fodder production etc as well as promotion and participation in interdisciplinary research related to the activities of the faculty are also included.

5. Name of the post Status: Lecturer (Tenure Track Promoted Position)

Name of the Institute/Organization: Department of Animal Science, PSTU, Bangladesh

Tenure of service (D/M/Y): From 18/10/2006 To 17/10/2008; **Length of Service:** 02 years

Duties/ Responsibilities/Achievements: i. Responsibilities for teaching and learning of the students in BSc in Agriculture and DVM at under-graduate, graduate levels and continuing education of teachers and researchers. ii. Carry out research and co-operate in and develop teaching and supervising within the Animal Husbandry subjects. iii. Own research within applied animal science, livestock production; feeds and fodder production etc as well as promotion and participation in interdisciplinary research related to the activities of the faculty are also included.

6. Name of the post Status: Assistant Professor (Tenure Track Promoted Position)

Name of the Institute/Organization: Department of Genetics and Animal Breeding, Dinajpur Govt. Veterinary College Establishment Project, Dinajpur, Bangladesh

Tenure of service (D/M/Y): From 09/12/2004 To 17/10/2006; **Length of Service:** About 01 year 11 months

Duties/ Responsibilities/Achievements: i. Carry out research and co-operate in and develop teaching and supervising within the genetics and animal breeding subject. ii. Responsibilities for education of students in DVM at under-graduate, graduate levels and continuing education of teachers and researchers. iii. Own research within applied animal science, livestock production; feeds and fodder production etc as well as promotion and participation in interdisciplinary research related to the activities of the faculty are also included.

7. Name of the post Status: Lecturer/Teaching Assistant (Part time) (It's a pedagogical, Post-graduate (Masters) and Graduate (BSc) student supervision training position)

Name of the Institute/Organization: Department of Zoo-Technology, Faculty of Agriculture, Peoples' Friendship University of Russia, Moscow, Russia

Tenure of service (D/M/Y): From 01/09/2001 To 31/03/2004; **Length of Service:** 02 years 07 months

Duties/ Responsibilities/Achievements: i. Carrying out research towards a doctoral degree, ii. Taking theoretical and practical classes of undergraduate and graduate students and research works of genetics, cytogenetics and selection of farm animals; and supervised post graduate and graduate student to MS and BSc degree, iii. Participating in theoretical and practical classes to assist Professor's and/or experimental research in the relevant areas. iv. Presenting research findings at conferences and seminars, v. Writing and publishing research results in the appropriate journals, vi. Active involvement in selected class taking on selected topics for academic and professional development.

8. Name of the post Status: Marketing Manager (Poultry and Dairy) (Leadership Managerial Position)

Name of the Institute/Organization: KHAMAR, Dilu Road, Mog Bazar, Dhaka, Bangladesh

Tenure of service (D/M/Y): From 01/08/1999 To 15/11/2000; **Length of Service:** About 01 year 04 months

Duties/ Responsibilities/Achievements: It was a senior level position and reported to Managing Director (Operations). This private sector organization was an Exclusive Agent of Vat. Medicine, Pharmacia & Upjohn of Belgium; Broiler Breeder of Arbor Acres Thailand Co. Ltd.; Layer Breeder of Dekalb Research Inc., USA; Poultry Vaccine, Biomune of USA. As the Marketing Manager of Poultry and Dairy wing the duties and responsibilities was performed-- i. Full responsibilities for the subordinate officers and staffs at field level; ii. Organize training programs on skill development, extension, marketing, new technology about livestock development; job rules and regulation of subordinate officers and staffs; and other technical matter through meeting, seminar and workshop; iii. Supervising and inspecting market extension activities in the field level; iv. Identifying the problems of market extension, farms (Livestock and Poultry), farm owners and provides them technical instructions; v. Submitting ACR along with suggestions to the concerned authority; vi. Ensure the foreign expert visit of the respective of the respective hatcheries and farms and during seminar and workshop; vii. Other responsibilities from the senior authority.

9. Name of the post Status: Livestock Extension Officer (Animal Scientist) (Departmental Extension, Development and Research activity Leadership Position at District Level)

Name of the Institute/Organization: Country Wide Extensive Fodder Cultivation and Extension Project, District Livestock Office, Kishoregonj; Department of Livestock Services, Bangladesh, Dhaka, Bangladesh.

Tenure of service (D/M/Y): From 20/01/1996 To 31/07/1999; **Length of Service:** About 03 years 07 months

Duties/ Responsibilities/Achievements: i. Establishing and maintaining local dairy farm through establishment of HYV fodder and fodder tree nurseries and pasture by farmers; ii. Transferring new technologies like urea treated straw, urea molasses straw, urea molasses block, algae culture, wet straw storage, bio gash production, silage and hay making etc to the farmers and owners of dairy, buffalo and goat farms; iii. Providing technology supports and instructions in establishing different livestock farms e.g. dairy farm, goat farm, beef fattening farm and poultry farm; iv. Supervising and inspection of extension activities, identifying the problems of farmers and provide technical instruction and scientific solutions to problems in the area of livestock feeding, breeding, management, care etc; v. Organizing training program on fodder cultivation, ration formulation and balancing, other new technologies related livestock farming, livestock and sustainable production, motivate the farmers to adopt these technologies through meeting, seminars and workshops.

10. Name of the post Status: Assistant Manager (Poultry and Dairy) (Tenure Track Position)

Name of the Institute/Organization: KHAMAR, Dilu Road, Mog Bazar, Dhaka, Bangladesh

Tenure of service (D/M/Y): From 01/11/1994 To 20/01/1996; **Length of Service:** About 01 year 03 months

Duties/ Responsibilities/Achievements: As an assistant manager I was responsible for assisting the manager (Poultry and Dairy) and higher authorities in different Agro-Based product marketing operations and administrative jobs related to the organization. This private sector organization was an Exclusive Agent of Vat. Medicine, Pharmacia & Upjohn of Belgium; Broiler Breeder of Arbor Acres Thailand Co. Ltd.; Layer Breeder of Dekalb Research Inc., USA; Poultry Vaccine, Biomune of USA.

B. Institutional/Departmental Academic, Research and Development Leadership Position:

1. Name of the post and Rank: Dean (Institutional Academic, Research and Development Leadership Position)

Name of the Institute: Faculty of Environmental Science and Disaster Management, PSTU, Bangladesh

Tenure of service (D/M/Y): From 01/01/2016 To 04/02/2019 and From 01/03/2015 To 31/05/2015; **Length of Service:** About 3.5 years

Duties/ Responsibilities/Achievements:

- i. Reported to the Vice-Chancellor and was the Faculty's leading representative in internal and external dealing, and hold responsibility for developing the Faculty's stakeholder relationships in a manner which is most likely to lead to the successful development and progress of the Faculty.
- ii. Played role as academic and research leader of the faculty and was responsible for effective leadership, management and development within the framework of the University's vision, mission and strategic direction. Lead, manage and develop the Faculty's focus on the achievement of center of excellence in teaching and research nationally and internationally.
- iii. Worked with the Vice-Chancellor's team to develop and implement University policy and to progress the University's long term aims and objectives.
- iv. As a member of the Academic Council, Dean Council and Chairman, Executive Committee played a key role in institutional strategic planning and decision-making.
- vi. Build up as the Professional Service Heads to initiate and develop taught programmes, research programs and develop international, national and regional links which span other GoV, NGO, INGO Institutions and/or Services. Lead in regularly undertaken the external peer review at institutional and program level for accreditation.
- vii. Played lead role to ensure the delivery and ongoing development of the curriculum in reference to the quality assurance framework of the University and UGC, developed appropriate strategies for teaching, learning and assessment.
- viii. Took responsibility for the development and promotion of a clear sustainable strategic vision for the Faculty's future development and prepared a Faculty Improvement Plan according to the external peer review team which is consistent with the University's Strategy.
- ix. Chair the Faculty Executive Committee, Graduate Internship and Research Defense Committee, and chair/serve on other Faculty Committees.
- x. Made advocacy to Vice-Chancellor on the appointment of teaching staff, researcher and other human resources need for the faculty.
- xi. Undertook any other activities assigned from time to time by the Vice-Chancellor/Pro Vice-Chancellor as needed.

2. Name of the post and Rank: Chairman (Departmental Academic, Research and Development Leadership Position)

Name of the Institute/Organization: Department of Disaster Risk Management, Patuakhali Science and Technology University (PSTU), Bangladesh

Tenure of service (D/M/Y): From 19/09/2011 To Till Date; **Length of Service:** Since 13 Years

Duties/ Responsibilities/Achievements: i. Reported to the Dean of the Faculty and is the Department's leading representative in internal and external dealing, and hold responsibility for developing the Department's stakeholder relationships in a manner which is most likely to lead to the successful development and progress of the Department and Faculty. ii. Carry out academic research and co-operate in and develop teaching and learning materials; supervising within the relevant subject and quality assurance of the education and research; ii. Accomplishment of research within Disaster Risk Science and Sustainability, CCA, Built environment, resilient community and scientific article writing and publication; Research project proposal writing and fund hunting; Coordinating among the internal and external faculty members, researchers as well as promotion and participation in interdisciplinary research related to the vision-mission of the faculty and university are also included; iii. Responsibilities for teaching-learning-education of students in relevant subjects at undergraduate and post graduate levels and continuing education and training of faculty teachers and researchers; iv. In addition, the position includes undertaking of administrative duties and assignments within the institution and faculty by Dean, Pro-Vice Chancellor and Vice-Chancellor.

3. Name of the post and Rank: Chairman/ Departmental Representative (Departmental Leadership Position)

Name of the Institute/Organization: Department of Animal Science, PSTU, Bangladesh

Tenure of service (D/M/Y): From 18/10/2006 To 10/05/2010; **Length of Service:** Above 03 years and 07 months

Duties/ Responsibilities/Achievements: i. Reported to the Dean of the Faculty of Agriculture and is the Department's leading representative in internal and external dealing among other departments, and hold responsibility for developing the Department's stakeholder relationships in a manner which is most likely to lead to the successful development and progress of the Department and Faculty. ii. Carry out academic research, formulation research protocols, and co-operate in and develop teaching and learning materials; supervising students within the relevant subject and quality assurance of the education and research; ii. Accomplishment of research within Animal production, Livestock environment and sustainable development, extension of new technologies among the stakeholders and community organizations and writing of scientific articles for publication; Writing of research project proposal and fund hunting; Coordinating among the internal and external faculty members, researchers as well as promotion and participation in interdisciplinary research related to the vision-mission of the faculty and university are also included; iii. Responsibilities for teaching-learning-education of students in relevant subjects at undergraduate and post graduate levels and continuing education and training of faculty teachers and researchers; iv. In addition, the position includes undertaking of administrative duties and assignments within the institution and faculty by Dean, Pro-Vice Chancellor and Vice-Chancellor.

4. Name of the post and Rank: Head (Departmental Leadership Position)

Name of the Institute/Organization: Department of Genetics and Animal Breeding, Dinajpur Govt. Veterinary College Establishment Project, Dinajpur, Bangladesh

Tenure of service (D/M/Y): From 09/12/2004 To 17/10/2006; **Length of Service:** About 01 year 11 months

Duties/ Responsibilities/Achievements: i. Reported to the Principal of the College and is the Department's leading representative in internal and external dealing among other departments, and hold responsibility for developing the Department's stakeholder relationships in a manner which is most likely to lead to the successful development and progress of the Department and Institution. ii. Assist in carrying out research and co-operate in and develop teaching and supervising within the genetics, animal breeding, dairy and poultry production, dairy technology, Microbiology, Small ruminant production, feeds and feeding etc related subject. iii. Responsibilities for management of education of students in DVM at under-graduate, graduate levels and continuing education of teachers and researchers. iv. Individual research of the all teaching staffs within applied genetics and Animal Breeding as well as promotion and participation in interdisciplinary research related to the vision, mission of the institute are also included. v. Played role as the Manager of Dairy and Poultry research farm. vi. In addition, the position includes undertaking of administrative duties and assignments within the institution and college.

Classes Taken and Subject Taught at different Department/Institute/Faculty/ Organization (Graduate/Post Graduate/PGD/Professional Training/Extension):

1. **Department of Environmental Science and Disaster Management/Department of Disaster Risk Management, Faculty of Environmental Science and Disaster Management, Patuakhali Science and Technology University, Bangladesh:**
 - 1.1 **MS in Disaster Risk Science and Sustainability Program:** i. Advanced Disaster Science and Management, (2+0) Credit; ii. Communication for Disaster Risk Reduction and Sustainable Development, (2+0) Credit; iii. Disaster Managers Skills and Diplomatic Crisis Management, (2+0) Credit; iv. Disaster Risk Reduction Project Planning and Management, (2+0) Credit; v. Disaster Management Cycles: Applied Knowledge, (2+0) Credit; vi. Eco-Based Disaster Risk Reduction, (2+0) Credit; vii. Advanced Modeling for Disaster Management and Disaster Management Drivers, (2+0) Credit; viii. Research Methodology in Disaster Risk Science and Sustainability, (2+0) Credit; ix. Scientific Writing Skills for Disaster Risk Science and Sustainability, (2+0) Credit; x. Homeland Security and Terrorism in Risk Science and Sustainability, (2+0) credit, and xi. Vulnerability to Resilience: Livelihood Centered Approach for Disaster Risk Reduction, (2+0) credit.
 - 1.2 **B. Sc. in Environmental Science and Disaster Management (Hons) Program:** i. Modeling for Disaster Management, (2+0) Credit; ii. Fundamentals of Disaster Management, (2+0) Credit; iii. Disaster Risk Management in Livestock and Fisheries, (2+1) Credit; iv. Disaster Management Systems: Bangladesh: (2+0) Credit; v. DRR Project management: (0+1) Credit; vi. Disaster Risk Reduction: Principles and Practices: (2+0) Credit; vii. Disaster Management: Indigenous Knowledge and Modern Science: (2+0) Credit; viii. Disaster Risk Management in Crop Agriculture and Food Security: (2+1) Credit; ix. Community Based Disaster Management: (2+1) Credit; x. Disaster Risk Management in Livestock and Fisheries and Adaptation: (0+1) Credit; xi. Disaster Risk Management and Sustainable Development: (2+0) Credit; xii. Fundamentals of Biology, (2+0) Credit hour-L1 S-II; xiii. River erosion and Flood Management (Theoretical and practical), (2+1 credit; xiv. Introduction to Hazard, Risk and Disaster, (2+0) Credit; xv. Basic Biology, Biological Hazards and Disasters, (2+0) Credit
 - 1.3 **Post Graduate Diploma in Disaster Management Program:** i. Introduction to Hazard, Risk and Disaster, (2+0) Credit; ii. Emergency Management: Principles and Practices, (2+0) Credit; iii. Disaster Risk Management: Principles and Practices, (2+0) Credit; iv. Risk Management in Agriculture Sector, (2+1) Credit
 - 1.4 **Three/Five-day-long Training on Disaster Management Program:** i. Disaster Risk Reduction: Principles and Practices; ii. Emergency Management: Principles and Practices, iii Standing Orders of Disaster (SOD) for humanitarian actors
2. **Department of Animal Science/Department of Biotechnology, Faculty of Agriculture, Patuakhali Science and Technology University, Bangladesh:**
 - 2.1 **B. Sc. in Agriculture (Hons) Program:** i. General Animal Science, (2+1) credit;
 - 2.2 **MS in Biotechnology Program:** i. Livestock Biotechnology, (2+0) credit
 3. **Department of Genetics and Animal Breeding/Department of Dairy and Poultry Science, Dinajpur Government Veterinary College, Dinajpur, Bangladesh:**
 - 3.1 **Doctor of Veterinary Medicine (DVM) Program:** i. Animal Genetics; Credit: 3 + 1 = 4; ii. Reproduction and Biotechnology; Credit: 2 + 1 = 3; iv. Animal Production (Cattle and Buffalo); Credit: 3+1; v. Dairy Technology; Credit: 2+1; vi. Dairy Microbiology; Credit: 1+1; vii. Animal Production (Goat and Sheep); Credit: 3+1
4. **Department of Zoo-Technology, Faculty of Agriculture, Peoples' Friendship University of Russia, Moscow, Russia:**
 - 4.1 **B.Sc. and MS Program in Zoo-Technology:** General Genetics, Environmental Genetics, Molecular Genetics, Cytogenetics and Selection of Agricultural Animal's, (7+4) credit
5. **District Livestock Office, Kishoregonj; Department of Livestock Services, Bangladesh, Dhaka, Bangladesh:**
 - 5.1 **Three to Seven-Day-Long Dairy and Poultry Farmers Training and Extension Program:** Training and Extension program on- i. Fodder Cultivation and Processing as livestock feed; ii. Ration Formulation and Balancing; iii. New Livestock Farming Technologies and Sustainable Livestock Production; iv. Extension and Motivation of the farmers to adopt them modern technologies through meeting, seminars and workshops.

Relevant Professional Training Courses Obtained:

1. **Name of the Event: Training on Curricula Development, Self Assessment and Quality Assurance in Higher Education;** Arranged by QAA Council and the University of Peradeniya, Sri Lanka. Held in close partnerships with the University Grants Commission of Sri Lanka (UGC) and the University of Peradeniya, Sri Lanka. **Year of attended:** From 3rd to 12th February 2012; **Remarks:** Successfully completed
2. **Name of the Event: APSCO Training Course on "Environment and Disaster Monitoring Through Space Technology"** course held at Dhaka, Bangladesh. Jointly organized by Asia-Pacific Space Cooperation Organization (APSCO), Beijing, China and Bangladesh Space Research & Remote Sensing Organization (SPARRSO), Dhaka, Bangladesh. **Year of attended:** November 22-December 1, 2011; **Remarks:** Successfully completed
3. **Name of the Event: "Disaster Management and Monitoring Using Integrated Space Technology"** course; organized by Bangladesh Space Research & Remote Sensing Organization (SPARRSO), Dhaka, Bangladesh. **Year of attended:** September 25-05 October, 2011; **Remarks:** Successfully completed
4. **Name of the Event: "Administrative and Financial Management for PSTU Teachers"** course. Training was organized by Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh. **Year of attended:** 21-23 and 29-30 October, 2011; **Remarks:** Successfully completed
5. **Name of the Event: "Computer Office Application"** certificate course on National Skill Standard Basic (360Hrs), Bangladesh Technical Education Board, Dhaka. **Year of attended:** Session: January-June, 2010; **Remarks:** Obtained A+
6. **Name of the Event: "Graphic Design and Multimedia Programming"** certificate course on National Skill Standard Basic (360Hrs), Bangladesh Technical Education Board, Dhaka; **Year of attended:** Session: July-December, 2009; **Remarks:** Obtained A+
7. **Name of the Event: "Training of Trainers on Disaster Management"** course. Jointly organized by Rural Development Academy, Bogra and Comprehensive Disaster Management Program of UNDP, MoFDM, Bangladesh. **Year of attended:** 03 to 07 May, 2009; **Remarks:** Successfully completed
8. **Name of the Event: "Livestock Production Technologies"** training course. Organized by Animal Production Research Division, Bangladesh Livestock Research Institute, Savar, Dhaka. **Year of attended:** 19 to 24 October, 1996; **Remarks:** Successfully completed

9. Name of the Event: "Departmental Extension Management" course. Organized by Officers Training Institute, Savar, Dhaka; Organized by Department of Livestock Services, Bangladesh. **Year of attended:** 25 June- 09 July, 1996; **Remarks:** Successfully completed

10. Name of the Event: "Agricultural Extension and Rural development" practical training course. Organized by Dept. of Agricultural Extension Education, Bangladesh Agricultural University, Mymensingh. **Year of attended:** 20 to 25 August, 1994; **Remarks:** Successfully completed

Participation in Seminar/ Workshop/ Symposium:

1. Attend "2nd International Workshop Training on "Space Technology for Disaster Mitigation" in Beijing, China, From 3rd -13th June, 2014. Organized by CAS-TWAS Centre of Excellence on Space Technology for Disaster Mitigation (SDIM), hosted by the Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences, Beijing, China.
2. "Updating and Validating of Disaster Management Existing Curricula at Patuakhali Science and Technology University, Patuakhali", Organized by CP 471, HEQEP-PSTU GoB-WB Funded Sub-Project, UGC, Bangladesh and Faculty of Disaster Management, PSTU. 03-05 April, 2013
3. Catalyst Project Regional Workshop for South and Southeast Asian Region. 23 to 25 January 2013, Bangkok, Thailand. Hosted by Economic and Social Commission for Asia and the Pacific. United Nations Building, Rajadamnern Nok Avenue, Bangkok 10200, Thailand. Presented "Work in Capacity Development for DRR/CCA and Capacity development related to State-of-the-Art and Best Practices in DRR/CCA: Faculty of Disaster Management (FDM), Patuakhali Science and Technology University (PSTU), Bangladesh".
4. 6th expert consultation workshop on Disaster Management Curriculum, Jointly Organized by BRAC University, Bangladesh and CDMP on 27 November 2010- Participated as an active member and resource person of Bangladesh Disaster Management Education Research and Training Network (BDMERT).
5. 5th expert consultation workshop on Disaster Management Curriculum, Jointly Organized by Bangladesh University of Professionals (BUP), Mirpur Cantonment, Dhaka and CDMP on 31st July 2010- Participated as an active member and resource person of Bangladesh Disaster Management Education Research and Training Network (BDMERT).
6. Seminar on "Disaster Management Education: PSTU Activities and Initiatives", PSTU and CDMP, 12 November, 2009- Participated as an organizer and resource person.
7. Workshop on "Incorporation of Disaster Management Studies in PSTU Curriculum", PSTU and CDMP. 07 November, 2009- Participated as an organizer and key note Paper Presenter.
8. 4th expert consultation meeting on Disaster Management Curriculum Development and Workshop on Disaster Management Curriculum at Tertiary Level: Progress, Achievement and way forwards, DU- CDMP on 31st October 2009- Participated as an active member and resource person of BDMERT network.
9. 3rd expert consultation meeting on Disaster Management Curriculum Development at Khulna University, Organized by KU and CDMP, 23-24, Dec. 2008- Participated as an active member and resource person of BDMERT network.
10. 2nd expert consultation meeting on Disaster Management Curriculum Development at PSTU, Organized by PSTU and CDMP, 11-12, Nov, 2008- Participated as an organizer and resource person of Bangladesh Disaster Management Education Research and Training Network (BDMERT).
11. Second International scientific practical Conference on "Scientific and technical progress in Animal Husbandry of Russia – ecologically safe production", Moscow, Russia. 2003- Participated as a Resource person.
12. International Conference on "Modern achievements and problems of Biotechnology of Agricultural Animals". Dubrovitsy, Moscow, Russia. 2003- Participated as a Resource person.
13. International scientific conference on "Modern achievements and problems of Biotechnology of Agricultural Animals". Dubrovitsy, Moscow, Russia. 2002- Participated as a Resource person.

Membership of Professional Association and Extracurricular Activities:

1. **Organization/Association:** Executive Committee, Faculty of Environmental Science and Disaster Management, Patuakhali Science and Technology University, **Membership Status:** Member, **Length of Services:** August, 2011 to till date
2. **Organization/Association:** Editorial Board, Journal of the Patuakhali Science and Technology University- May 2012- Till Date, **Membership Status:** Assistant/ Associate Editor and Member, **Length of Services:** 07/07/2008 to Till Date
3. **Organization/Association:** Bangladesh Disaster Management Education, Research and Training Network (BDMERT), **Membership Status:** Active Member, **Length of Services:** 2008 to till date
4. **Organization/Association:** Academic Committee/Planning Committee/Curriculum Committee/Examination Committee/Procurement Committee, Department of Disaster Risk Management, Patuakhali Science and Technology University, **Membership Status:** Chairman, **Length of Services:** August, 2008 to Till Date
5. **Organization/Association:** Academic Council, Patuakhali Science and Technology University, **Membership Status:** Member, **Length of Services:** January, 2007 to Till Date.
6. **Organization/Association:** Admission Committee, Patuakhali Science and Technology University, **Membership Status:** Statutory Member, **Length of Services:** 2016 to 2018.
7. **Organization/Association:** International Society for Digital Earth (ISDE) Membership Certificate_m-i-2014093, **Membership Status:** Individual Member, **Length of Services:** 2014-2015
8. **Organization/Association:** Barisal Government Veterinary College Education and Examination Management Committee, Barisal Govt. Vet. College (BGVC), Barisal, **Membership Status:** Member, **Length of Services:** 05/04/2008 to 05/12/2012
9. **Organization/Association:** Livestock Emissions and Abatement Research Network (LEARN). C/O: New Zealand Agricultural Greenhouse Gas Research Centre, Ag Research, Grassland Research Center, Tennent Drive, Private Bag 11008, Palmerston North 4442, New Zealand. E Mail: info@livewstockemissions.net; <https://www.nzagrc.org.nz/learn.html>, **Membership Status:** Registered Member, **Length of Services:** 2011
10. **Organization/Association:** Academic Committee/Planning Committee/Curriculum Committee/Examination Committee/Procurement Committee, Department of Animal Science, Patuakhali Science and Technology University, Bangladesh, **Membership Status:** Chairman, **Length of Services:** 10/2006 to 05/2010
11. **Organization/Association:** Academic Committee/Planning Committee/Curriculum Committee/Examination Committee/Procurement Committee, Department of Environmental Science and Disaster Management, Patuakhali Science and Technology University, **Membership Status:** Member, **Length of Services:** August, 2008 to August, 2009
12. **Organization/Association:** Outreach Agricultural Program, PSTU, **Membership Status:** Member, **Length of Services:** 2008 to 2012
13. **Organization/Association:** International Society for Animal Genetics, UK, **Membership Status:** Individual Member, **Length of Services:** 2001-2003
14. **Organization/Association:** Bangladesh Animal Husbandry Association, **Membership Status:** Life Time Member, **Length of Services:** 1994 to Till Date
15. **Organization/Association:** Krishibid (Agriculturist) Institution, Bangladesh, **Membership Status:** Life time Member, **Length of Services:** 1994 to Till Date

Language proficiency:

Parameters	Name of the Language					
	Bengali	English	Hindi	Urdu	Russian	Arabic
Reading	Excellent	Excellent	-	Moderate	Moderate	Good
Writing	Excellent	Good	-	-	Moderate	-
Speaking	Excellent	Good	Good	Good	Moderate	Moderate

I confirm that the information given above is true and complete. I have no objection in respect to verification an authenticity of information mentioned above.

Date: October 24, 2024.

Signed

Professor Dr. A.K.M. Abdul Ahad Biswas
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